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This index covers all technical items - papers, correspondence, reviews, etc. that appeared in this periodical during 1998, and items from previous years that were commented upon or corrected in 1998. In the case of magazines, departments and other items may be also covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Subject cross-references are included to assist in finding items of interest. Note that the item title is found only under the primary entry in the Author Index.

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Discrete transforms; cf. Discrete cosine transforms; Discrete Fourier transforms

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Distortion; cf. Harmonic distortion; Jitter; Rate distortion theory

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Eigenvectors; cf. Eigenvalues and eigenfunctions

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Electroencephalography

- VQ, globally optimal solns. *Moller, U.*, + , *T-SP Sep 98* 2515-2529

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- cancellation of polarized impulsive noise using azimuth-depend. conditional mean estimator. *Spagnolini, U.*, *T-SP Dec 98* 3333-3344

Electromagnetic interference; cf. Electromagnetic radiative interference

Electromagnetic propagation; cf. Radio propagation

Electromagnetic radiation; cf. Antenna radiation patterns

Electromagnetic radiative interference

- CDMA cellular radio, multiuser access interf. cancellation. *Chatterjee, C.*, + , *T-SP Jun 98* 1769-1776
- DS-SS commun., interf. excision techs., perform. anal. *Tazebay, M.V.*, + , *T-SP Sep 98* 2530-2535
- Poisson field of interferers or scatterers, analytic alpha-stable noise modeling. *Ilow, J.*, + , *T-SP Jun 98* 1601-1611

Electromagnetic radiative interference; cf. Cochannel interference; Jamming; Radar interference

Electromagnetic scattering

- Poisson field of interferers or scatterers, analytic alpha-stable noise modeling. *Ilow, J.*, + , *T-SP Jun 98* 1601-1611

Electronic warfare; cf. Jamming

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Encoding; cf. Adaptive coding; Audio coding; Channel coding; Error correction coding; Image coding; Modulation coding; Pseudonoise coding; Source coding; Transform coding; Vector quantization

Entropy

- audio compression, adaptive wavelet packet decomp./psychoacoustic modeling. *Srinivasan, P.*, + , *T-SP Apr 98* 1085-1093
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Entropy; cf. Maximum entropy methods

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- adaptive wavelet packet based image coding strategy. *Won-Ha Kim*, + , *T-SP Jul 98* 2019-2026
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- blind ident. of ARMA channels with periodically modulated inputs. *Giannakis, G.B.*, + , *T-SP Nov 98* 3099-3104
- const. modulus algm. misconvergence, PN seqs. effects. *Axford, R.A., Jr.*, + , *T-SP Feb 98* 519-523
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- deterministic approaches for blind equalization of time-varying channels with antenna arrays. *Liu, H.*, + , *T-SP Nov 98* 3003-3013
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- LTI channel blind equalization. *Chevreuil, A.*, + , *T-SP Jan 98* 259-263
- optimum open eye equalizer design for nonminimum phase channels. *Halpern, M.E.*, + , *T-SP Sep 98* 2353-2358
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- subspace based blind ident., stat. approach. *Kristensson, M.*, + , *T-SP Jun 98* 1612-1623

Equalizers; cf. Adaptive equalizers; Decision feedback equalizers

Equations; cf. Difference equations; Differential equations; Integral equations; Lyapunov matrix equations; Riccati equations

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- finite precision FIR filters, optimal design, LP appl. *Nam Ik Cho*, + , *T-SP Jan 98* 195-199
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- perfect-reconstruction filter banks having lin.-phase FIR filters with equiripple response. *Yang, S.-J.*, + , *T-SP Dec 98* 3246-3255
- pseudo-QMF banks, near-equiripple perform. *Jayasimha, S.*, + , *T-SP Jan 98* 209-214

Equiripple filters; cf. Chebyshev filters

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- 51.84 Mb/s ATM-LAN and broadband access transceivers. *Shanbhag, N.R.*, + , *T-SP May 98* 1403-1416
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- DFE BER improvement, decision-error propag. prevention. *Fertner, A.*, *T-SP Jul 98* 1872-1877
- DSP perform. for step-like continuous sig. localization in noise, lower bound. *Bartov, A.*, + , *T-SP Aug 98* 2195-2201
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- strained sigs., covariance anal. of time delay estim. *Bilgen, M.*, + , *T-SP Oct 98* 2589-2600
- total LMS algm. *Da-Zheng Feng*, + , *T-SP Aug 98* 2122-2130
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- VQ data transm. over noisy channels, error control scheme. *Chi-Sing Leung*, + , *T-SP Oct 98* 2767-2780
- weighted subspace fitting for general array error models. *Jansson, M.*, + , *T-SP Sep 98* 2484-2498

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- nonredundant residue arith., highly parallel fast scaling of nos. *Ullman, Z.D.*, + , *T-SP Feb 98* 487-496

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- multivariate conditional dens. estim., expanding Gaussian kernels. *Davis, D.T.*, + , *T-SP Jan 98* 269-275
- random variables, sum sign estim. *Webster, R.J.*, + , *T-SP Jul 98* 2015-2019
- spectral estim., iter. nonparametric approach, DFT. *Sacchi, M.D.*, + , *T-SP Jan 98* 31-38
- spectrum estim. by wavelet thresholding of multitaper estimators. *Walden, A.T.*, + , *T-SP Dec 98* 3153-3165
- time delays, fewer sens. than sources. *Emile, B.*, + , *T-SP Jul 98* 2012-2015

Estimation; cf. Adaptive estimation; Delay estimation; Direction of arrival estimation; Least squares methods; MAP estimation; Maximum entropy methods; Maximum likelihood estimation; Mean square error methods; Minimax methods; Nonlinear estimation; Parameter estimation; Recursive estimation; Smoothing methods; State estimation; Wiener filtering

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- seismic sigs. classif., neural network ensembles integrat. *Shimshoni, Y.*, + , *T-SP May 98* 1194-1201

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Matrices; cf. Covariance matrices; Hankel matrices; Polynomial matrices; Sparse matrices; Toeplitz matrices

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Matrix decomposition; cf. Singular value decomposition; Spectral factorization

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Mobile communication; cf. Land mobile radio

Modeling; cf. Biological system modeling; Hidden Markov models; Signal representations

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Modulation; cf. Amplitude modulation; Chirp modulation; Digital modulation; Frequency modulation; Modulation coding; Optical modulation; Phase modulation; Pulse amplitude modulation; Pulse code modulation

Modulation coding
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Modulation coding; cf. Trellis coded modulation

Moment methods; cf. Galerkin method

Monitoring; cf. Biomedical monitoring

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Motion measurement; cf. Tracking

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Moving average processes; cf. Autoregressive moving average processes

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Multiaccess communication; cf. Code division multiaccess; Frequency division multiaccess; Subscriber loops; Time division multiaccess

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Multidimensional signal processing; cf. Multidimensional digital filters

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Multipath channels; cf. Rayleigh channels

Multiplexing; cf. Frequency division multiplexing; Transmultiplexing

Multiplication; cf. Matrix multiplication

Multiprocessing; cf. Neural networks

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Neural networks; cf. Feedforward neural networks; Recurrent neural networks; Self-organizing feature maps

Newton method

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- VQ, competitive learning algms. *Hofman, T., +, T-SP Jun 98* 1665-1675
- VQ data transm. over noisy channels, error control scheme. *Chi-Sing Leung, +, T-SP Oct 98* 2767-2780

Noise; cf. Acoustic noise; Crosstalk; Electromagnetic interference; Impulse noise; Random noise; White noise

Nondestructive testing

- sparse deconvolution, iterated window maximization method, eval./appls. *Kaaresen, K.F., T-SP Mar 98* 609-624

Nondestructive testing; cf. Acoustic testing

Nonlinear circuits; cf. Nonlinear filters

Nonlinear distortion; cf. Harmonic distortion

Nonlinear equations; cf. Polynomials

Nonlinear estimation

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Nonlinear filters; cf. Median filters

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Nonlinear programming; cf. Quadratic programming

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Power amplifiers; cf. Traveling wave amplifiers; UHF power amplifiers

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Time series; cf. Autoregressive processes

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